

Amendments to the Claims

Replace all prior versions and listings of claims in the application with the following list of claims.

1. **(currently amended)** A geocoding method comprising
identifying from orthorectified imagery locations of entities associated with each side of a street segment;
ordinally numbering the identified locations with respect to positions along each side of the street segment;
determining street addresses associated with each side of the street segment; and
associating the identified locations with the determined street addresses to produce geocoded street addresses for each side of the segment;
wherein associating the identified locations with the determined street addresses comprises
matching, on each side of the street segment, the ordinal numbering of the identified locations with a natural order of the determined street addresses[.]; **and, if there is not a one-to-one matching between the identified locations and the determined street addresses, then redefining the street segment to include multiple adjacent segments.**
2. (original) The method of claim 1 wherein determining street addresses comprises:
consulting a Street Map database to obtain a range of possible addresses associated with each side of the street segment; and
consulting a Situs Address database to obtain the street addresses.
3. (original) The method of claim 2 wherein the range of possible addresses comprises:
a range of even addresses; and
a range of odd addresses.
4. (original) The method of claim 1 wherein the street addresses comprise:
a list of odd addresses on the street segment and
a list of even addresses on the street segment.

5. (original) The method of claim 1 wherein the identifying locations of entities comprises:
selecting centroids associated with entity image features, and
associating the centroids with the street segment.
6. (original) The method of claim 5 wherein selecting centroids comprises extracting the entity
image features and calculating the centroids from the extracted entity image features.
7. (cancelled)
8. (original) The method of claim 1 further comprising adding the geocoded street addresses to a
database if there is a one-to-one matching between the identified locations and the
determined street addresses.
9. (original) The method of claim 1 wherein associating the identified locations with the
determined street addresses comprises:
consulting an entity registry database identifying multi-unit buildings in the street segment and
associating multiple street addresses with identified locations corresponding to multi-unit
buildings.
10. (cancelled)
11. (original) A geocoding method comprising:
obtaining a linearly ordered set of entity geocodes associated with a side of a street segment;
obtaining a linearly ordered set of entity addresses associated with the side of the street segment;
and
associating the entity geocodes with the entity addresses by a linearly ordered matching, thereby
geocoding the entity addresses;
wherein obtaining the linearly ordered set of entity geocodes comprises:
obtaining a set of entity geocodes associated with the side of the street segment, where each
entity geocode potentially represents an addressable entity, and

linearly ordering the received entity geocodes to produce the linearly ordered set of geocodes;
wherein linearly ordering the received entity geocodes comprises calculating intersection points
between the street segment and lines drawn perpendicular to said street segment to said
entity geocodes.

12. (cancelled)

13. (original) The method of claim 11 wherein obtaining the set of entity geocodes associated
with the side of the street segment comprises identifying image features of an aerial or
satellite image and correlating the image features with street segment data from a street
map data source.

14. (original) The method of claim 13 wherein identifying image features of an aerial or satellite
image comprises identifying street segments and potentially addressable entities.

15. (cancelled)

16. (original) The method of claim 11 wherein linearly ordering the received entity geocodes
comprises:
calculating intersection points between the street segment and lines drawn perpendicular to said
street segment to said entity geocodes; and
assigning a linear order to the intersection points based on distances along the street segment
from an endpoint of the street segment to the intersection points.

17. (original) The method of claim 11 wherein obtaining the linearly ordered set of entity
geocodes comprises receiving street segment data for endpoints of the street segment.

18. (original) The method of claim 11 wherein obtaining the linearly ordered set of entity
addresses comprises receiving a list of assignable addresses associated with the street
segment and linearly ordering the list.

19. (original) The method of claim 18 wherein obtaining the linearly ordered set of entity addresses comprises associating the list with the street segment by receiving address range direction data and street segment side data.
20. (original) The method of claim 11 wherein associating the entity geocodes with the entity addresses is performed in accordance with address range direction data and street segment side data.
21. (original) The method of claim 11 wherein associating the entity geocodes with the entity addresses comprises producing for each side of the segment a one-to-one correspondence between a numerical order of the list of entity addresses and the linear order of the linearly ordered set of entity geocodes.
22. (original) The method of claim 11 wherein associating the entity geocodes with the entity addresses comprises accessing a entity registry database comprising multi-unit buildings and multi-building entities.
23. (original) The method of claim 11 wherein associating the entity geocodes with the entity addresses comprises redefining the street segment.
24. (original) The method of claim 11 wherein associating the entity geocodes with the entity addresses comprises transferring at least one of the entity addresses to an adjacent street segment.
25. (original) The method of claim 11 wherein associating the entity geocodes with the entity addresses comprises switching the addresses between right and left sides of the segment.
26. **(currently amended)** A geocoding method comprising:
obtaining a list of entity geocodes associated with a side of a street segment;
ordinally numbering the list of entity geocodes with respect to position on the street segment;
obtaining an ordered list of entity addresses associated with the side of the street segment; and

associating the entity geocodes with the entity addresses by an ordinal matching, thereby geocoding the entity addresses[.]; **wherein associating the entity geocodes with the entity addresses comprises switching the addresses, as appropriate, between right and left sides of the segment.**

27. (original) The method of claim 26 wherein ordinally numbering the list of entity geocodes comprises calculating intersection points between the street segment and lines drawn perpendicular to the street segment to the entity geocodes.
28. (original) The method of claim 27 wherein ordinally numbering the list of entity geocodes further comprises assigning a linear order to the calculated intersection points based on distances along the street segment from an endpoint of the street segment to the calculated intersection points.
29. (original) The method of claim 26 wherein obtaining the list of entity geocodes associated with the side of the street segment comprises identifying image features of an aerial or satellite image and correlating the image features with street segment data from a street map data source.
30. (original) The method of claim 26 wherein obtaining the list of entity geocodes comprises receiving street segment data for endpoints of the street segment.
31. (original) The method of claim 26 wherein obtaining the ordered list of entity addresses comprises receiving a list of assignable addresses associated with the street segment and linearly ordering the list.
32. (original) The method of claim 26 wherein obtaining the ordered list of entity addresses comprises associating the ordered list with the street segment by receiving address range direction data and street segment side data.

33. (original) The method of claim 26 wherein associating the entity geocodes with the entity addresses is performed in accordance with address range direction data and street segment side data.
34. (original) The method of claim 26 wherein associating the entity geocodes with the entity addresses comprises producing for each side of the segment a one-to-one correspondence between a numerical address order of the ordered list of entity addresses and the ordinally numbered list of entity geocodes.
35. (original) The method of claim 26 wherein associating the entity geocodes with the entity addresses comprises accessing an entity registry database comprising multi-unit buildings and multi-building entities.
36. (original) The method of claim 26 wherein associating the entity geocodes with the entity addresses comprises redefining the street segment.
37. (original) The method of claim 26 wherein associating the entity geocodes with the entity addresses comprises transferring at least one of the entity addresses to an adjacent street segment.
38. **(cancelled)**
39. (original) The method of claim 26 further comprising adding the geocoded entity addresses to a database.